

WISHA Services Washington Industrial Safety and Health Act

• A Mission to Accomplish: * Save Lives * Prevent Injuries and Illnesses * Protect the Safety & Health of Washington's Workers

Ergonomics Rule Basics

Preventing Work-Related Musculoskeletal Disorders (WMSDs)

WAC 296-62-051

Our Objective is to:

- Identify "caution zone jobs" and give examples
- Explain the requirements for "caution zone jobs" under the rule
- Explain resources that we have available to employers to assess hazards and reduce WMSDs



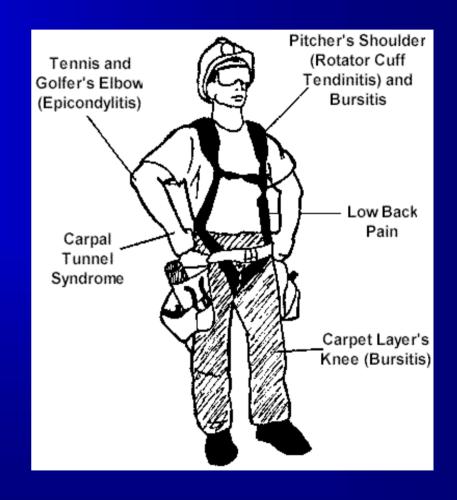
What is Ergonomics?

"Ergonomics is the science and practice of designing jobs or workplaces to match the capabilities and limitations of the human body."



What are WMSDs?

Work-Related
Musculoskeletal Disorders
(WMSDs) are
occupational disorders
that involve soft tissues
such as muscles, tendons,
ligaments, joints, blood
vessels and nerves.





Implementing the Ergo Rule

What am I being required to do?

Am I covered by the Rule?

How long do I have to get into compliance?



Implementing the Ergo Rule

Do you have "caution zone" jobs?

No

Yes

Not covered

Covered by Rule

Am I covered by the Rule?





"Caution Zone" Jobs Require Action

Do you have "caution zone" jobs?

No

Not covered No requirements

No hazards present

Annual review

No additional requirements

Yes

Two requirements:

- Awareness education
- Evaluate "caution zone" jobs for hazards

Hazards present

Reduce exposure below the hazard level or to the degree feasible

Annual review



The rule applies <u>only</u> to employers with "Caution Zone" jobs

- Caution Zone Jobs are not prohibited
- Reasonable determination only
- Incidental exposure is not included
 - > more than 1 day/week and 1 week/year
- Duration is the <u>actual exposure time to the</u> <u>specific risk factor</u>





What is a

"Caution Zone" job?

Look for these indicators:



- Awkward Postures
- High Hand Force
- Highly Repetitive Motion
- Repeated Impact
- Heavy, Frequent or Awkward Lifting
- Moderate to High Hand-Arm Vibration





Awkward Postures

Working in these postures for more than 2 hours total per day

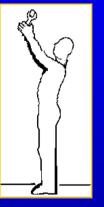
- Hands above head
- Elbow above shoulder
- Back bent forward more than 30 degrees
- Neck bent more than 30 degrees
- Squatting
- Kneeling





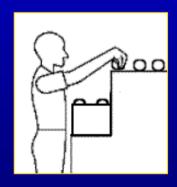
Working with the hands overhead

For more than 2 hours per day









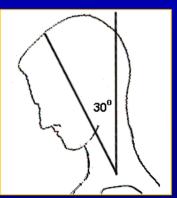


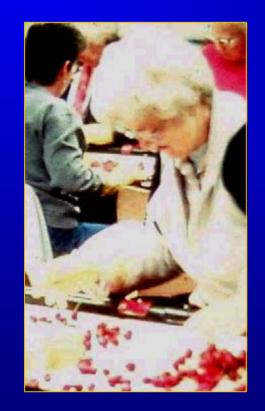


Neck or Back Bent Forward More than 30°

For more than 2 hours per day











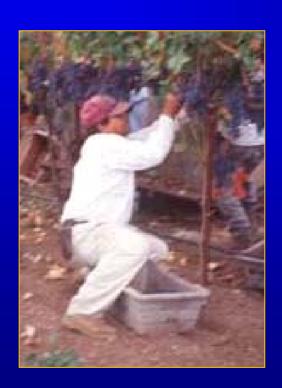


Squatting or Kneeling

For more than 2 hours per day













High Hand Force More than 2 hours per day of:



Pinching 2 or more pounds weight or 4 or more pounds force





Gripping 10 or more pounds weight or force







Highly Repetitive Motion

Workers repeat same motion every few seconds for more than 2 hours per day with:

- neck
- shoulders
- elbows
- wrists
- hands



Click Picture to View Video

(Requires Real Player available here)





Highly Repetitive Motion

Intensive keying for more than 4 hours per day



Click Picture to View Video

(Requires Real Player available here)





Repeated Impact

Using hands or knees as a hammer

- more than 10 times per hour
- more than 2 hours per day













Heavy, Frequent, or Awkward Lifting

Lifting objects more than:

- 75 lbs. once/day
- 55 lbs. more than ten times/day
- 10 lbs. more than twice/minute for more than 2 hours per day
- 25 lbs. above shoulders, below knees, or at arms length for more than 25 times/day







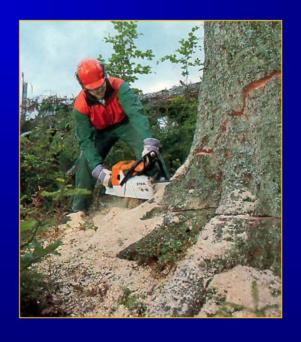


Moderate to High Hand-Arm Vibration

Moderate Level more than 2 hours/day

High Level more than 30 Min/day







Analyzing Caution Zone Jobs for Hazards

- Use a systematic method to look at:
 - physical demands
 - > layout of work area
 - > size, shape, and weight of objects handled
- The results will help to determine controls



Hazard Zone Jobs



Risk factors become hazardous when:

there is a longer <u>duration</u> of exposure

Shoulders	Working with the hand(s) above the head or the elbow(s) above the shoulder(s)	More than 4 hours total per day	



Hazard Zone Jobs



Risk factors become hazardous when:

there is greater intensity

Back	Working with the back bent forward more than 30° (without support, or the ability to vary posture)	More than 4 hours total per day	30	
	Working with the back bent forward more than 45° (without support or the ability to vary posture)	More than 2 hours total per day	45°	

Hazard Zone Jobs

(use Appendix B) ← click here to get to this checklist

Risk factors become hazardous when:

there is a <u>combination</u> of risk factors

Arms,
wrists,
hands

Gripping an unsupported object(s) weighing 10 or more pounds per hand, or gripping with a force of 10 pounds or more per hand (comparable to clamping light duty automotive jumper cables onto a battery)

Highly repetitive	•
motion	

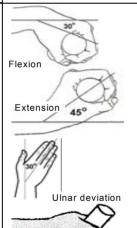
More than 3 hours total per day



Wrists bent in flexion 30° or more, or in extension 45° or more, or in ulnar deviation 30° or

more

More than 3 hours total per day









(click here to go to the Ideas bank)

Using a carpet stretcher to eliminate knee impacts







(click here to go to the Ideas bank)

Wallboard lifting system for installing drywall

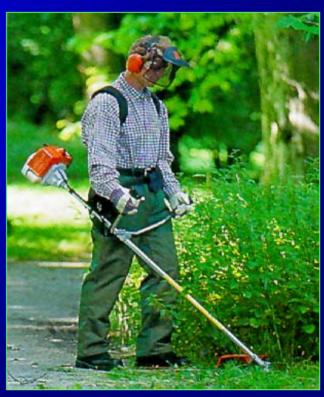




(click here to go to the Ideas bank)

Shoulder harness for landscaping tool to reduce hand forces







(click here to go to the Ideas bank)

Lift assist device to eliminate heavy, awkward lifts in nursing homes and home health care







Implementing the Rule





If You Have "Caution Zone Jobs", You Must:

- Begin an employee awareness education program
- Analyze your workplace for hazards
- Reduce any hazards you find



Employee Ergonomics Awareness Education



- Ergonomics education is for employees in "caution zone jobs" and their supervisors
- Awareness education is portable
- Awareness education must be repeated every 3 years



Employee ErgonomicsAwareness Education



- Provide information on all "caution zone" risk factors
- Show the types, symptoms and impacts of WMSDs
- Show the importance of early reporting of symptoms
- Identify the hazards and measures to reduce them
- Teach the requirements of the ergonomics rule



Employee Ergonomics Awareness Education



- L&I has materials available to help you comply with this requirement
- Materials are in a variety of forms
 - > video
 - > CD-ROM
 - > slides
 - ▶ Internet-based



Your Options to Analyze for Hazards

- General Performance Option
 - These are some widely used methods, (see the examples listed in the rule)
- Specific Performance Option
 - > see the criteria in Appendix B
- Grandfather Clause Option
 - > not required to re-analyze jobs if already done



Reducing Identified Hazards

- You need to reduce hazards to below hazard level, or to a degree technologically and economically feasible through:
 - Engineering and administrative controls (preferred) and/or
 - Individual work practices and PPE
- Employers <u>are not required</u> to reduce employee hours to comply



Job-Specific Training

- Job-specific training is required only if controls change the job or work practices
- Training must include:
 - hazards of the work activities
 - safe work practices
 - proper use and maintenance of control measures



Employee Involvement

- Your safety committee must be involved in selecting the methods of employee participation
- Involve your employees in:
 - Analyzing "Caution Zone" Jobs
 - Selecting hazard control methods
 - Reviewing ergonomics activities annually
- Results must be shared with your safety committee



Implementing the Rule

How long do I have to get into compliance?

Compliance dates are staggered over six years





INITIAL IMPLEMENTATION SCHEDULE					
Employer	Awareness Education Completed And Hazard Analysis Completed	Hazard Reduction Completed			
Group 1:					
Large highest risk employers and L&I**	July 1, 2002	July 1, 2003			
Group 2:					
Smaller highest risk employers and all other large employers	July 1, 2003	July 1, 2004			
Group 3:					
All other moderate size employers	July 1, 2004	July 1, 2005			
Group 4:	July 1, 2005	July 1, 2006			
All other small employers	July 1, 2005				
SUPPLEMENTAL IMPLEMENTATION SCHEDULE					
New workplaces or businesses	One year from the date the new workplace or business is established OR According to the schedule above	15 months from the date the new workplace or business is established OR According to the schedule above			
Significant changes to	2 months after significant	3 months after significant			

**Group 1 Employers: Employers in the highest risk industries with 50 or more FTEs, plus L&I.

changes occur

OR

changes occur

OR

According to the schedule

General Building Contractors, Residential; Masonry and Stonework; Carpentry and Floor Work; Roofing, Siding and Sheet Metal Work; Concrete Work; Sawmills and Planing Mills; Residential Care; Trucking and Courier Service; Air Transportation and Air Courier; Grocery Stores; Landscaping and Horticultural Services; Nursing and Personal Care.

Group 2 Employers: All remaining employers in the highest risk industries.

All remaining employers with 50 or more FTEs

Group 3 Employers: All remaining employers with 11-49 FTEs.
Group 4 Employers: All remaining employers with 1-10 FTEs.

Significant changes to

existing workplaces or

businesses

Click Here for a printable version of this Implementation Schedule



Remember "Caution Zone Jobs" Require Action

Do you have "caution zone jobs?"

No

Not covered No requirements

No hazards present

Annual review

No additional requirements

V

Two requirements:

- Awareness education
- Evaluate "caution zone" jobs for hazards

Yes

Hazards present

Reduce exposure below the hazard level or to the degree feasible

Annual review



Things not required by the rule

- No requirements for medical management
- No change in how claims are handled
- No violation of the rule solely because of injury or symptoms
- No recordkeeping or written program required



Department of Labor & Industries Implementation Activities

- We are working with employers on demonstration projects:
 - To develop guides and models
 - To identify industry-specific "best practices"
 - > To develop inspection policies and procedures
 - > To share information on ergonomics
- A Blue Ribbon Panel has confirmed readiness



Assistance is available

- Ergonomics workshops are available
- Ergonomics consultations are available on request
- WISHA ergo web site: www.lni.wa.gov/wisha/ergo



Visit the WISHA Ergonomics web site for regular updates and additional help at http://www.lni.wa.gov/wisha/ergo

If you have questions regarding the ergonomics rule please <a href="mailto:ema

